

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00075

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07K 14/16, C07K 16/10, A61K 39/21, A61K 39/295, G01N 33/569
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J. Virol, Volume 73, No 1, January 1999, Lole KS et al, "Full-length human immunodeficiency virus type 1 genomes from subtype C-infected seroconverters in India, with evidence of intersubtype recombination", page 152 - page 160, see locus AAD12087 a.a. 164-182	1,6-8,11-15
A	--	5
X	Nature, Volume 354, December 1991, Rodney E. Philips et al, "Human immunodeficiency virus genetic variation that can escape cytotoxic T cell recognition", page 453 - page 459, table 1, page 24 res 255-271	1,6-8,11-15
A	--	4

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

3 July 2000

Date of mailing of the international search report

06-07-2000

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00075

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9840744 A1 (BOEHRINGER MANNHEIM GMBH), 17 Sept 1998 (17.09.98), SEQ ID NO:14	1,6-8,11-15
A	---	4
X	WO 9627013 A1 (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE-INSERM), 6 Sept 1996 (06.09.96), seqs 43-49, 71-73	1,6-8,11-15
A	---	5
X	WO 9428871 A1 (ENDOCON, INC.), 22 December 1994 (22.12.94), see page 12, lines 4, 5	1,6-8,11-15
A	---	4
A	Human Retroviruses and Aids, Bette Korber: "A Compilation and Analysis of Nucleic Acid and Amino Acid Sequences", 1997, see page II-A-1-15	1-5
A	WO 9511255 A1 (AJINOMOTO CO., INC.), 27 April 1995 (27.04.95), page 10, line 7	1,4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 00/00075

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: **1, 6-8, 11-15**
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see next sheet

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).:

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 00/00075

A very large number of documents were found during the search for sequences belonging to the group defined by SEQ ID N:O 9. As the evaluation of all these documents would take an unreasonable amount of time, only a subset of the documents were evaluated and included in the search report. The search was then restricted to the fully specified sequences SEQ ID N:O 10-14. Consequently, all claims relating to SEQ ID N:O 9 are only partially searched.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NO 00/00075

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	9840744	A1	17/09/98	AU	6727798 A	29/09/98
				DE	19727943 A	24/09/98
WO	9627013	A1	06/09/96	CA	2214102 A	06/09/96
				EP	0812359 A	17/12/97
				FR	2731013 A,B	30/08/96
				JP	11501805 T	16/02/99
WO	9428871	A1	22/12/94	AU	7101294 A	03/01/95
WO	9511255	A1	27/04/95	AU	685521 B	22/01/98
				AU	7948794 A	08/05/95
				CA	2173138 A	27/04/95
				CN	1133597 A	16/10/96
				EP	0728764 A	28/08/96
				US	5756666 A	26/05/98